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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,133	12/12/2003	Jianbo Lu	81093041(FGT 1882 PA)	1924
28549	7590	01/12/2006		
KEVIN G. MIERZWA ARTZ & ARTZ, P.C. 28333 TELEGRAPH ROAD, SUITE 250 SOUTHFIELD, MI 48034			EXAMINER BEAULIEU, YONEL	
			ART UNIT	PAPER NUMBER
			3661	

DATE MAILED: 01/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/735,133

Applicant(s)

LU, JIANBO

Examiner

Yonel Beaulieu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Arguments

Applicant's arguments with respect to claims 1 - 21 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 – 5, 7 – 12, 14, 15, and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Okamoto (US 4,886,291).

Regarding claims 1, 3 – 5, 7 - 12, 14, 15, and 17, Okamoto teaches operating a roll stability control system for an automotive vehicle (figs. 1, 2, and 15) – the vehicle having a front and a rear brake system and a front and a rear active anti-roll bar system (figs. 1-2; note items connected to circuits 16; summary; col. 2, lines 13 – 33; col. 15, line 66 – col. 16, line 15 at least) - comprising: an active anti-roll bar system (300 in fig. 15; col. 3, lines 13 - 16; col. 13, line 45 – col. 14, line 27); a rollover sensing system generating a roll attitude signal indicative of an impending rollover of the vehicle (col. 4, lines 4 – 18 at least); and a controller (100) coupled to the active anti-roll bar system and the rollover sensing system, said controller controlling the active anti-roll bar to prevent the vehicle from rolling over in response to the roll attitude signal being between

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a first and a second threshold and controlling the brake system (by way of item 106) to reduce a rolling moment of the vehicle based on tire force vector (col. 3, lines 54 – col. 4, line 18 at least).

Regarding claim 2, Okamoto further teaches controlling the active anti-roll bar system and the brake actuator to prevent the vehicle from rolling over (col. 4, lines 19 – 24 at least).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6, 13, 16, are 18 – 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okamoto ('291) in view of Mattson et al. (US 2004/0167701 A1).

Okamoto teaches all of the limitations of the above claims except for a lateral acceleration sensor, a yaw rate sensor, determining a wheel lifted condition indicative of a lifted wheel, a traction control system, and sequential/simultaneous control of the bar and brake actuators.

However, Mattson et al. teaches, in the same field of endeavor of roll stability system for a vehicle (10), a lateral acceleration sensor, a yaw rate sensor, determining a wheel lifted condition indicative of a lifted wheel, a traction control system (see fig. 1; ¶¶ 0003, 0008 – 0010, 0012, 0028, 0029, 0032, and 0034 at least) and sequential and simultaneous operation of the control system (¶0043 at least).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Okamoto's teaching by including a lateral acceleration sensor, a yaw rate sensor, determining a wheel lifted condition indicative of a lifted wheel, a traction control system and sequential/simultaneous operation of the control system as evidenced by Mattson et al. in order to increase reliability of the system.

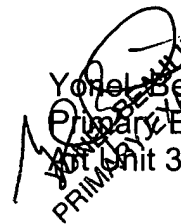
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yonel Beaulieu whose telephone number is (571) 272-6955. The examiner can normally be reached on M-W 9-3; F 9-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas BLACK can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Yonel Beaulieu
Primary Examiner
Art Unit 3661
PRIMARY EXAMINER